PAPER ID-311477

Subject Code: KCA014

Roll No: | | | | | | | | | | | | | |

MCA

(SEM III) THEORY EXAMINATION 2023-24

CLOUD COMPUTING

TIME: 3 HRS **M.MARKS: 100**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **2 x 10 = 20**

Qno.	Question	Marks	CO
a.	What is the use of cloud watch in Amazon EC?	2	2
b.	Discuss cloud security challenges.	2	5
c.	Compare parallel computing and distributed computing	2	1
d.	Define security issues in cloud.	2	4
e.	Express the levels of virtualization.	2	3
f.	List the functional models of GAE.	2	4
g.	Explain the cloud computing reference model with neat diagram	2	1
h.	List the requirements of the cloud application	2	5
i.	Differentiate Public cloud and Private cloud.	2	2
j.	What do you mean by Events Management?	2	3

SECTION B

2. Attempt any *three* of the following: **10 x 3 = 30**

a.	Illustrate the following in detail i. Demand-Driven Resource Provisioning ii. Event-Driven Resource Provisioning	10	1
b.	What do you understand by service oriented architecture (SOA). How it support cloud computing?	10	3
c.	What do you mean by services provided by Amazon infrastructure cloud from user perspective?	10	2
d.	Give the diagram of cloud computing reference architecture. Illustrate in detail about the Conceptual Reference Model of cloud.	10	5
e.	What is the difference between process virtual machines, host VMMs and native VMMs.	10	4

SECTION C

3. Attempt any *one* part of the following: **10 x 1 = 10**

a.	Elaborate HDFS concepts with suitable illustrations.	10	3
b.	List out and discuss the innovative characteristics of cloud computing.	10	5

4. Attempt any *one* part of the following: **10 x 1 = 10**

a.	Explain the risk from multi-tenancy with respect to various cloud environment.	10	4
b.	Illustrate Web Service in detail. Why Web Service required? Differentiate between API and Web Services.	10	1

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5. Attempt any *one* part of the following: 10 x 1 = 10

a.	Describe the major cloud features of Google application engine.	10	1
b.	Analyze the pros and cons of virtualization in detail.	10	2

6. Attempt any *one* part of the following: 10 x 1 = 10

a.	Illustrate any five web services of Amazon in detail.	10	4
b.	List and discuss the principles for designing public cloud, private cloud and hybrid cloud.	10	3

7. Attempt any *one* part of the following: 10 x 1 = 10

a.	Describe the following in detail i.Google Cloud Infrastructure ii.GAE Architecture	10	1
b.	What do you understand by service oriented architecture (SOA). How it support cloud computing?	10	3

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